

Title (en)  
PHOTOCURABLE INK COMPOSITION FOR INK-JET PRINTING

Title (de)  
PHOTOHÄRTBARE TINTENZUSAMMENSETZUNG FÜR DEN TINTENSTRAHLDRUCK

Title (fr)  
COMPOSITION D'ENCRE PHOTODURCISSABLE POUR L'IMPRESSION PAR JET D'ENCRE

Publication  
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Application  
**EP 17756113 A 20170131**

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Abstract (en)  
[origin: EP3421554A1] An object of the present invention is to provide a photocurable inkjet printing ink composition offering excellent discharge stability, which also exhibits excellent curability, adhesion, and abrasion resistance and of which coating film has little tackiness, exhibits excellent stretchability, and does not crack in post-processing, even when the total light quantity of ultraviolet irradiation energy (especially ultraviolet light from an LED light source) is low (when the total light quantity is 100 mJ/cm<sup>2</sup> or less, for example). As a means for achieving the object, a photocurable inkjet printing ink composition, containing a photopolymerizable compound and a photopolymerization initiator, is provided wherein the photocurable inkjet printing ink composition is characterized in that 100 percent by mass of the photocurable inkjet printing ink composition includes: an acrylamide-based monomer by 5.0 to 50 percent by mass; a monofunctional monomer other than acrylamide-based monomer by 15 to 70 percent by mass; a polymerizable compound having two or more functionalities by 5.0 to 30.0 percent by mass; vinyl caprolactam by 0.1 to 15 percent by mass and/or an acrylated amine compound having two photopolymerizable functional groups and two amino groups in the molecule by 0 to 10 percent by mass; and the percentage of monofunctional monomers in the photopolymerizable compound is 60 to 99.5 percent by mass..

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